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DOCUMENT-IDENTIFIER:

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TITLE:

System, method and article of

manufacture for virtual

point of sale processing utilizing an

extensible,

flexible architecture

----- KWIC -----

Detailed Description Text - DETX (33):

Frameworks also represent a change in the way programmers think about the

interaction between the code they write and code written by others. In the

early days of procedural programming, the programmer called libraries provided

by the operating system to perform certain tasks, but basically the program

executed down the page from <u>start</u> to finish, and the programmer was solely

responsible for the flow of control. This was appropriate for printing out

paychecks, calculating a mathematical table, or solving other problems with a

program that executed in just one way.

Detailed Description Text - DETX (92):

In function block 620, payment gateway computer system 140 **verifies** merchant

computer system's 130 encryption public key certificate 515 and merchant

computer system's 130 signature public key certificate 520. Payment gateway

computer system 140 performs this verification by making a call to the

certification authorities associated with each certificate. If verification of

either certificate fails, payment gateway computer system 140 rejects the

authorization request.

Detailed Description Text - DETX (93):

In function block 625, payment gateway computer system 140 validates

merchant digital signature 525. Payment gateway computer system 140 performs

this $\underline{\text{validation}}$ by calculating a message digest over the contents of the

combined basic authorization request 510, the encryption public key certificate

515 and the signature public key certificate 520. Payment gateway computer

system 140 then decrypts digital signature 525 to obtain a copy of the

equivalent message digest calculated by merchant computer system 130 in

function block 420. If the two message digests are equal, the digital

signature 525 is validated. If validation fails, payment gateway computer

system 140 rejects the authorization request.

Detailed Description Text - DETX (121):

FIG. 12 depicts the detailed steps of processing a payment capture request

and generating and transmitting a payment capture request response. Function

blocks 1210 through 1245 depict the steps of processing a payment capture

request, while function blocks 1250 through 1285 depict the steps of generating

and transmitting a payment capture request response. In function block 1210,

payment gateway computer system 140 applies its private key to encrypted random

key 1160 contained within received merchant capture request 915, thereby

decrypting it and obtaining a cleartext version of random key RK-3 1140. In

function block 1215, payment gateway computer system 140 applies random key

RK-3 1140 to encrypted combined block 1150, thereby decrypting it and obtaining

a cleartext version of combined block 1130. Combined block

1130 comprises

basic capture request 1110, a copy of merchant computer system's 130 encryption

public key certificate 1115 and a copy of merchant computer system's 130

signature public key certificate 1120, as well as merchant digital signature

1125. In function block 1220, payment gateway computer system 140 **verifies**

merchant computer system's 130 encryption public key certificate 1115 and

merchant computer system's 130 signature public key certificate 1120. Payment

gateway computer system 140 performs this verification by making a call to the

certification authorities associated with each certificate. If verification of

either certificate fails, payment gateway computer system 140 rejects the capture request.

Detailed Description Text - DETX (122):

In function block 1225, payment gateway computer system 140 validates

merchant digital signature 1125. Payment gateway computer system 140 performs

this <u>validation</u> by calculating a message digest over the contents of the

combined basic capture request 1110, the <u>encryption public</u> <u>key certificate</u> 1115

and the signature public key certificate 1120. Payment gateway computer system

140 then decrypts digital signature 1125 to obtain a copy of the equivalent

message digest calculated by merchant computer system 130 in function block

1020. If the two message digests are equal, the digital signature 1125 is

validated. If validation fails, payment gateway computer system 140 rejects

the capture request. In function block 12 30, payment gateway computer system

140 applies its private key to encrypted random key RK-2 790 contained within

received merchant capture request 915, thereby decrypting it and obtaining a

cleartext version of random key RK-2 775. In function block 1235, payment gateway computer system 140 applies random key RK-2 775 to encrypted capture token 780, thereby decrypting it and obtaining a cleartext version of capture token 770.

Detailed Description Text - DETX (334):

This transaction is done at the end of the day to confirm to the <a href="https://host.to.no.nim.nim.no.nim.nim.no.nim.nim.no.nim.nim.no.nim.nim.no.nim.nim.no.nim.nim.no.nim.no.nim.no.nim.no.nim.no.nim.no.nim.no.nim.no.nim.no.n

Detailed Description Text - DETX (456):

The reconciliation or close transaction is processed at the end of the day to <u>start</u> the settlement process for the transactions captured by the <u>host</u> for that particular vPOS.

Detailed Description Text - DETX (457):

The <u>host</u> log-on transaction is an administrative transaction which is used to synchronize the vPOS with the <u>host at the start</u> of the day and also initiate a fresh batch at the vPOS terminal.

Detailed Description Text - DETX (461):

The vPOS unlock or start transaction is a local function used to start the vPOS at the start of the day. The vPOS lock or stop
function is used to Lock

or stop the vPOS from accepting any transactions. The vPOS configuration setup

function is used to setup the vPOS configuration data. The vPOS configuration $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left$

data is divided into different tables, for example, the Card/Issuer Definition

Table (CDT), the Host/Acquirer Definition Table (HDT), the Communications

Parameters Table (CPT) and the Terminal Configuration Table (TCT). The

following sections explain each of these configuration tables in detail.

Detailed Description Text - DETX (1178):

The Internet is a viable infrastructure for electronic commerce. Ubiquitous

browser software for the World Wide Web provides around-the-clock access to a

large base of information content provided by Web servers. Utilizing a

preferred embodiment, consumers using browsers can shop at virtual stores and

malls presented as Web pages managed by the

merchants'servers. Consumers can

make purchases and pay for them using credit cards or other digital payment

instruments in a secure manner. For such Internet-based payments to be

authorized, a "gateway" is necessary at the back end to channel transactions to

legacy processors and interchange networks.

Detailed Description Text - DETX (1427):

If the request type is either for authorization only or for a sale,

execution proceeds with Step 5640. In step 5640, the Gateway initializes a

container object to represent the request. In Step 5650, the Gateway extracts

the [transaction identifier?] (XID) for the transaction. In Step 5652, the

Gateway extracts the merchant identifier (MID) for the transaction. In Step

5654, the Gateway extracts the [what is the RRPID?] (RRPID) and the terminal

identifier (TID) for the request. In Step 5656, the Gateway extracts the retry

count associated with the current request. In Step 5660, a message <u>data</u> area is <u>initialized</u> with the extracted contents. The message area can then be used for further processing by the called routine. In Step 5690, the GetSetKeyFields routine returns control to the caller.